=> d his

(FILE 'HOME' ENTERED AT 16:01:26 ON 26 APR 2007)

FILE 'REGISTRY' ENTERED AT 16:01:41 ON 26 APR 2007

L1 1 S NATEGLINIDE/CN

L2 STR 105816-04-4

L3 35 S L2 FAM FUL

FILE 'STNGUIDE' ENTERED AT 16:05:19 ON 26 APR 2007

=> d l1

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

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L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
```

RN 105816-04-4 REGISTRY

ED Entered STN: 21 Dec 1986

CN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN D-Phenylalanine, N-[[4-(1-methylethyl)cyclohexyl]carbonyl]-, trans-

OTHER NAMES:

CN (-)-N-[(trans-4-Isopropylcyclohexyl)carbonyl]-D-phenylalanine

CN A 4166

CN AY 4166

CN D-Nateglinide

CN DJN 608

CN Fastic

CN Nateglinide

CN SDZ-DJN 608

CN Senaglinide

CN Starlix

CN Starlix DS

CN Starsis

FS STEREOSEARCH

DR 418766-62-8

MF C19 H27 N O3

CI COM

SR CA

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK\*, PATDPASPC, PHAR, PIRA, PROMT, PROUSDDR, PS, RTECS\*, SCISEARCH, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

533 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

536 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.06 80.48

FULL ESTIMATED COST

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FILE COVERS 1907 - 26 Apr 2007 VOL 146 ISS 18 FILE LAST UPDATED: 25 Apr 2007 (20070425/ED)

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=> s 105816-04-4 and ( acetone or acetonitrile or nitromethane)
 REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L5 536 L4

176436 ACETONE 86464 ACETONITRILE 10858 NITROMETHANE

L6 31 L5 AND ( ACETONE OR ACETONITRILE OR NITROMETHANE)

=> s 16 and py<2002 21882646 PY<2002 L7 3 L6 AND PY<2002

=> d 1-3 ibib abs hitstr

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:571834 CAPLUS

DOCUMENT NUMBER: 136:172892

TITLE: Test for cis-isomer from N-(trans-4-

isopropylcyclohexyl-carbonyl)-D-phenylalanine by

RP-HPLC

AUTHOR(S): Si, Duanyun; Zhong, Dafang

CORPORATE SOURCE: Center of Instrumental Analysis, Shenyang

Pharmaceutical University, Shenyang, 110016, Peop.

Rep. China

SOURCE: Yaowu Fenxi Zazhi (2001), 21(3), 153-154

CODEN: YFZADL; ISSN: 0254-1793

PUBLISHER: Yaowu Fenxi Zazhi Bianji Weiyuanhui

DOCUMENT TYPE: Journal LANGUAGE: Chinese

AB A non-chiral RP-HPLC method was developed for testing of the cis-isomer from N-(trans-4-isopropylcyclohexylcarbonyl)-D- phenylalanine (I).

Nucleosil C18 column was used with acetonitrile - 0.05 mol L-1 NH4H2PO4 (22.5:77.5) (pH 7.4) as mobile phase (a flow rate of 1.0 mL

min-1), and 210 nm as UV detection wavelength. The electrospray

ionization-quadrupole ion trap mass spectrometer was applied to verify the separation. The chromatog. peaks with a good resolution of 1.51 at 54.7 min and

49.8 min resulted from I and its cis-isomer, resp. This assay could be

used as an ordinary way to test for the cis-isomer impurity of I.

IT 105816-04-4

RL: ANT (Analyte); ANST (Analytical study)

(determination of cis-isomer from

N-(trans-4-isopropylcyclohexyl-carbonyl)-D-

phenylalanine by RP-HPLC)

RN 105816-04-4 CAPLUS

CN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA

INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:964992 CAPLUS

DOCUMENT NUMBER: 124:155974

TITLE: Crystals of N-(trans-4-isopropylcyclohexylcarbonyl)-D-

phenylalanine and methods for preparing them

INVENTOR(S): Sumikawa, Michito; Koguchi, Yoshihito; Ohgane, Takao;

Irie, Yasuo; Takahashi, Satoji

PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan

SOURCE: U.S., 12 pp. Cont.-in-part of U.S. Ser. No. 166,144.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 5463116	Α	19951031	US 1994-190460	19940202 <
US 5488150	Α	19960130	US 1993-166144	19931214 <
CA 2114678	A1	19950802	CA 1994-2114678	19940201 <
CA 2114678	С	19990427		
PRIORITY APPLN. INFO.:			JP 1991-189696 A	. 19910730
			JP 1991-199453 A	19910808
			US 1992-921224 B	1 19920729
	•		US 1993-166144 A	2 19931214

Stable crystals of N-(trans-4-isopropylcyclohexylcarbonyl)-D-phenylalanine AB for pharmaceutical formulation may be produced by treating this compound with a solvent at a temperature of at least 10° and forming crystals in the solvent at a temperature of at least 10°. For example, crystals may be formed by crystallization out of solution, or may be formed from solid particles

of the compound suspended in a solvent. Crystals formed in this way have different m.p., IR spectrum and X-ray diffraction patterns from previously known forms of the compound and have enhanced processability, e.g., stability to grinding.

105816-04-4 IT

RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (crystallization of (isopropylcyclohexylcarbonyl)phenylalanine for enhanced stability to grinding)

RN 105816-04-4 CAPLUS

D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-CN INDEX NAME)

Absolute stereochemistry.

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN L7

ACCESSION NUMBER: DOCUMENT NUMBER:

1993:261002 CAPLUS 118:261002

TITLE:

Stable crystals of N-(trans-4-

isopropylcyclohexylcarbonyl)-D-phenylalanine

INVENTOR(S):

Sumikawa, Michito; Koguchi, Yoshihito; Ohgane, Takao;

Irie, Yasuo; Takahashi, Satoji

PATENT ASSIGNEE(S):

Ajinomoto Co., Inc., Japan

SOURCE:

Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE \_\_\_\_\_ \_\_\_\_ EP 1992-306895 19920729 <--A2 19930203 EP 526171 А3 19930505 EP 526171 EP 526171 В1 19970305 R: AT, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE 19920729 <--19930820 JP 1992-202686 JP 05208943 Α

JP	2508949	B2	19960619				
AT	149483	T	19970315	AT	1992-306895		19920729 <
ES	2100291	Т3	19970616	ES	1992-306895		19920729 <
CA	2114678	A1	19950802	CA	1994-2114678		19940201 <
CA	2114678	С	19990427				
PRIORITY	APPLN. INFO.:			JP	1991-189696	Α	19910730
				JР	1991-199453	Α	19910808

AB Stable H-type crystals of N-(trans-4-isopropylcyclohexylcarbonyl)-D-phenylalanine (I) are obtained by treating I with a solvent, at >10°. A solution of 5 g I in 20 mL acetone was added to a stirred mixture of 40 mL acetone and 60 mL water, at 25° to precipitate H-type crystals. The crystals have different m.p., IR spectrum and x-ray diffraction patterns from known forms of I and are not converted to other forms when ground.

IT 105816-04-4P

RL: PREP (Preparation)

(crystals, stable, preparation of)

RN 105816-04-4 CAPLUS

CN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA INDEX NAME)

on STN

NEWS 24 APR 02 JICST-EPLUS removed from database clusters and STN

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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=> file reg
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SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 25 APR 2007 HIGHEST RN 932710-95-7 DICTIONARY FILE UPDATES: 25 APR 2007 HIGHEST RN 932710-95-7

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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http://www.cas.org/support/stngen/stndoc/properties.html

=> s nateglinide/cn

L1 1 NATEGLINIDE/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 105816-04-4 REGISTRY

ED Entered STN: 21 Dec 1986

```
D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA
     INDEX NAME)
OTHER CA INDEX NAMES:
     D-Phenylalanine, N-[[4-(1-methylethyl)cyclohexyl]carbonyl]-, trans-
     (-)-N-[(trans-4-Isopropylcyclohexyl)carbonyl]-D-phenylalanine
CN
     A 4166
     AY 4166
CN
     D-Nateglinide
CN
CN
     DJN 608
     Fastic
CN
     Nateglinide
CN
     SDZ-DJN 608
CN
CN
     Senaglinide
     Starlix
CN
CN
     Starlix DS
CN
     Starsis
FS
     STEREOSEARCH
     418766-62-8
DR
     C19 H27 N O3
MF
CI
     COM
SR
     CA
     STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO,
LC
       CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CIN, CSCHEM, DDFU, DRUGU,
       EMBASE, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*,
       PATDPASPC, PHAR, PIRA, PROMT, PROUSDDR, PS, RTECS*, SCISEARCH,
       SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
```

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

533 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
536 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> str 105816-04-4
:end
L2 STRUCTURE CREATED

=> s 12 fam ful
FULL SEARCH INITIATED 16:03:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 436 TO ITERATE

100.0% PROCESSED 436 ITERATIONS SEARCH TIME: 00.00.01

TERATIONS 35 ANSWERS

DEE NON 1111E. 00.00.01

L3 35 SEA FAM FUL L2

=> d scan

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with methanol (9CI)

MF C19 H27 N O3 . x C H4 O

CM 1

Absolute stereochemistry.

CM 2

нзс-он

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):34

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with heptane (9CI)

MF C19 H27 N O3 . x C7 H16

CM 1

Absolute stereochemistry.

CM 2

 $Me^{-(CH_2)_5-Me}$ 

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[cis-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)

MF C19 H27 N O3

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with ethanol (9CI)

MF C19 H27 N O3 . x C2 H6 O

CM 1

Absolute stereochemistry.

CM 2

 $_{
m H3C-CH2-OH}$ 

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with  $\beta$ -cyclodextrin (3:1) (9CI)

MF C42 H70 O35 . 3 C19 H27 N O3

CM 1

Absolute stereochemistry.

CM 2

PAGE 2-A

- L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
- MF C19 H27 N O3 . x H2 O

Absolute stereochemistry.

●x H20

- \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*
- L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with 1-butanol (9CI)

MF C19 H27 N O3 .  $\times$  C4 H10 O

CM 1

Absolute stereochemistry.

CM 2

 $_{\rm H3C-CH_2-CH_2-CH_2-OH}$ 

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with  $\beta\text{-cyclodextrin}$  (2:1) (9CI)

MF C42 H70 O35 . 2 C19 H27 N O3

CM 1

Absolute stereochemistry.

CM 2

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

MF C19 H27 N O3

Absolute stereochemistry.

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with 1-propanol (9CI)

MF C19 H27 N O3 . x C3 H8 O

CM 1

 $_{\rm H3C-CH_2-CH_2-OH}$ 

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with 2A,2B,2C,2D,2E,2F,2G,6A,6B,6C,6D,6E,6F,6G-tetradeca-O-methyl- $\beta$ -cyclodextrin (1:1) (9CI)

MF C56 H98 O35 . C19 H27 N O3

CM 1

Absolute stereochemistry.

CM 2

PAGE 2-A

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)
MF C19 H27 N O3

Relative stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with N,N-dimethylacetamide (9CI)

MF C19 H27 N O3 . x C4 H9 N O

CM 1

Absolute stereochemistry.

CM 2

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with 2A,2B,2C,2D,2E,2F,2G,3A,3B,3C,3D,3E,3F,3G,6A,6B,6C,6D,6E,6F,6G-heneicosa-O-methyl- $\beta$ -cyclodextrin (1:1) (9CI)

MF C63 H112 O35 . C19 H27 N O3

CM 1

Absolute stereochemistry.

CM 2

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with 1-deoxy-1-(methylamino)-D-glucitol (1:1) (9CI)

MF C19 H27 N O3 . C7 H17 N O5

CM 1

Absolute stereochemistry.

CM 2

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with 1-methyl-2-pyrrolidinone (9CI)

MF C19 H27 N O3 . x C5 H9 N O

CM 1

Absolute stereochemistry.

CM 2

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with 2A,2B,2C,2D,2E,2F,2G,6A,6B,6C,6D,6E,6F,6G-tetradeca-O-ethyl-βcyclodextrin (1:1) (9CI)

MF C70 H126 O35 . C19 H27 N O3

CM 1

Absolute stereochemistry.

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with 2-amino-2-(hydroxymethyl)-1,3-propanediol (1:1) (9CI)

MF C19 H27 N O3 . C4 H11 N O3

CM 1

$$\begin{array}{c} {\rm ^{NH_2}} \\ {\rm ^{HO-}\,CH_2-C-CH_2-OH} \\ {\rm ^{CH_2-OH}} \end{array}$$

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with N,N-dimethylformamide (9CI)

MF C19 H27 N O3 . x C3 H7 N O

CM 1

Absolute stereochemistry.

CM 2

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with  $\beta\text{-cyclodextrin}$  (1:1) (9CI)

MF C42 H70 O35 . C19 H27 N O3

CM 1

Absolute stereochemistry.

PAGE 1-A



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with L-lysine (1:1) (9CI)

MF C19 H27 N O3 . C6 H14 N2 O2

CM 1

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with 1,2-dimethoxyethane (9CI)

MF C19 H27 N O3 . x C4 H10 O2

CM 1

Absolute stereochemistry.

CM 2

 $MeO-CH_2-CH_2-OMe$ 

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with 2A,2B,2C,2D,2E,2F,2G,3A,3B,3C,3D,3E,3F,3G,6A,6B,6C,6D,6E,6F,6G-heneicosa-O-ethyl- $\beta$ -cyclodextrin (1:1) (9CI)

MF C84 H154 O35 . C19 H27 N O3

CM 1

Absolute stereochemistry.

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-,
 monosodium salt (9CI)

MF C19 H27 N O3 . Na

Na

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with dimethylbenzene (9CI)

MF C19 H27 N O3 . x C8 H10

CM 1

Absolute stereochemistry.

CM 2

2 (D1-Me)

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

MF C19 H27 N O3 . 1/2 C1 H . 1/2 H2 O

●1/2 HCl

●1/2 H<sub>2</sub>O

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY. COPYRIGHT 2007 ACS on STN

MF C19 H27 N O3 . K

Absolute stereochemistry.

K

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with tetrachloromethane (9CI)

MF C19 H27 N O3 .  $\times$  C C14

CM 1

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN D-Phenylalanine, N-[[4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)
MF C19 H27 N O3

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ Ph & & & \\ \hline & & & \\ CO_2H & O \end{array}$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, calcium salt (2:1) (9CI)
MF C19 H27 N O3 . 1/2 Ca

Absolute stereochemistry.

●1/2 Ca

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd. with 1,2-dichloroethane (9CI)

MF C19 H27 N O3 . x C2 H4 C12

CM 1

Absolute stereochemistry.

CM 2

 $C1-CH_2-CH_2-C1$ 

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-

MF C19 H27 N O3

CI COM

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-,
 ammonium salt (9CI)

MF C19 H27 N O3 .  $\times$  H3 N

#### ●x NH3

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.
with trichloromethane (9CI)

MF C19 H27 N O3 .  $\times$  C H C13

CM 1

Absolute stereochemistry.

CM 2

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN L-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)

MF C19 H27 N O3

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

# **Refine Search**

## Search Results -

Terms	Documents
L1 and 562/\$	16

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

US OCR Full-Text Database

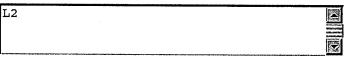
Database:

EPO Abstracts Database JPO Abstracts Database

Derwent World Patents Index

**IBM Technical Disclosure Bulletins** 

Search:











## **Search History**

DATE: Thursday, April 26, 2007 Purge Queries Printable Copy Create Case

Set Name Query side by side

**Hit Count Set Name** 

result set

DB = PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR = YES, OP = ADJ

<u>L2</u> L1 and 562/\$

16 L2

<u>L1</u> nateglinide.ti. and (acetone or nitromethane or acetonitrile)

19 L1

**END OF SEARCH HISTORY** 

## **Hit List**

# First Hit Clear 4 Generate Collection 1 Pfint Five Refs Blood Refs Generate OACS

## Search Results - Record(s) 1 through 10 of 19 returned.

☐ 1. Document ID: US 20070004804 A1

L1: Entry 1 of 19

File: PGPB

Jan 4, 2007

PGPUB-DOCUMENT-NUMBER: 20070004804

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070004804 A1

TITLE: Polymorphic forms of <a href="mailto:nateglinide">nateglinide</a>

PUBLICATION-DATE: January 4, 2007

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Yahalomi; Ronit Kiryat Bialik ILShapiro; Evgeny Haifa IL Dolitzky; Ben-Zion Petach Tiqva IL Gozlan; Igal Haifa IL Gome; Boaz Rishon-Lezion IL Wizel; Shlomit Petah Tiqva IL

US-CL-CURRENT: <u>514/563</u>; <u>562/450</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

☐ 2. Document ID: US 20060148902 A1

L1: Entry 2 of 19

File: PGPB

Jul 6, 2006

PGPUB-DOCUMENT-NUMBER: 20060148902

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060148902 A1

TITLE: Process for the preparation of nateglinide, preferably in B-form

PUBLICATION-DATE: July 6, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY
Vigano'; Enrico Lurago D'Erba IT
Pizzatti; Enrica Poggiridenti IT
Lanfranconi; Simona Montano Lucino IT

Molteni; Renato

Inverigo

ΙT

Landonio; Ernesto

Rescaldina

IT

US-CL-CURRENT: <u>514/563</u>; <u>562/450</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
					,							

☐ 3. Document ID: US 20060004102 A1

L1: Entry 3 of 19

File: PGPB

Jan 5, 2006

Oct 20, 2005

PGPUB-DOCUMENT-NUMBER: 20060004102

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060004102 A1

TITLE: Polymorphic forms of <u>nateglinide</u>

PUBLICATION-DATE: January 5, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Wizel; Shlomit Petah Tiqva IL
Frenkel; Gustavo Beer Sheva IL
Gome; Boaz Rishon-Lezion IL

US-CL-CURRENT: <u>514/563</u>; <u>562/450</u>

Full Titl	e Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi De
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File: PGPB

PGPUB-DOCUMENT-NUMBER: 20050234129

PGPUB-FILING-TYPE: new

L1: Entry 4 of 19

DOCUMENT-IDENTIFIER: US 20050234129 A1

TITLE: Salts of nateglinide

PUBLICATION-DATE: October 20, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Sutton, Paul Allen Parsippany ŊJ US Vivilecchia, Richard Victor Rockaway ŊJ US Parker, David John West Milford NJ US De La Cruz, Marilyn Matawan NJ US

US-CL-CURRENT: 514/563; 514/62, 536/55.3, 562/450

Record List Display Page 3 of 6

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 5. Document ID: US 20050101672 A1

L1: Entry 5 of 19

File: PGPB

May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050101672

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050101672 A1

TITLE: Nateglinide crystals

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Koguchi, Yoshihito Kawasaki-Shi Jp Nakao, Tomoko Kawasaki-Shi Jp Sumikawa, Michito Kawasaki-Shi Jp

US-CL-CURRENT: 514/563; 562/450

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

☐ 6. Document ID: US 20050090552 A1

L1: Entry 6 of 19

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050090552

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050090552 A1

TITLE: Polymorphic forms of <u>nateglinide</u>

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Yahalomi, Ronit Kiryat Bialik IL Shapiro, Evgeny Haifa IL Dolitzky, Ben-Zion Petach Tiqva IL Gozlan, Igal Haifa ILGome, Boaz Rishon-Lezion IL

US-CL-CURRENT: <u>514</u>/<u>563</u>; <u>562</u>/<u>450</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 7. Document ID: US 20050075400 A1

L1: Entry 7 of 19 File: PGPB Apr 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050075400

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050075400 A1

TITLE: Polymorphic forms of nateglinide

PUBLICATION-DATE: April 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yahalomi, Ronit	Kiryat Bialik		IL
Shapiro, Evgeny	Haifa		IL
Dolitzky, Ben-Zion	Petach Tiqva		IL
Gozlan, Yigael	Ramot Sapir		IL
Gome, Boaz	Rishon-Lezion		IL

US-CL-CURRENT: <u>514/563</u>; <u>562/445</u>

Full Title Citation Fro	nt   Review   Cla	ssification Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
□ 8. Document I	D: US 20050	0014949 A1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	enne varianti en		···	
L1: Entry 8 of 19	•		File: P	GPB		Jan	20,	2005

PGPUB-DOCUMENT-NUMBER: 20050014949

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050014949 A1

TITLE: Polymorphic forms of <u>nateglinide</u>

PUBLICATION-DATE: January 20, 2005

INVENTOR - INFORMATION:

NAME	CITY	STATE	COUNTRY
Yahalomi, Ronit	Kiryat Bialik		IL
Shapiro, Evgeny	Haifa		IL
Dolitzky, Ben-Zion	Petach Tiqva		IL
Gozlan, Yigael	Ramot Sapir		IL
Gome, Boaz	Rishon-Lezion		IL

US-CL-CURRENT: <u>546/270.4</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
			-		-				<u></u>			

L1: Entry 9 of 19

File: PGPB

Jan 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050014836

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050014836 A1

TITLE: Crystalline form of <u>nateglinide</u>

PUBLICATION-DATE: January 20, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Frenkel, Gustavo

Beer Sheva

IL

Gome, Boaz

Rishon-Lezion

IL

Wizel, Shlomit

Petah Tiqva

IL

US-CL-CURRENT: 514/563; 562/450

- Total	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi De

☐ 10. Document ID: US 20040181089 A1

L1: Entry 10 of 19

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040181089

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040181089 A1

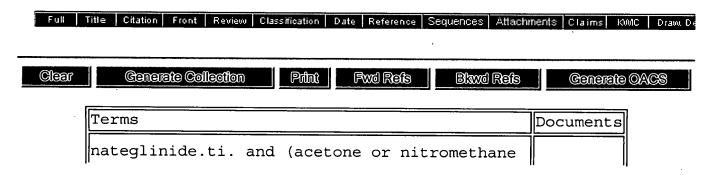
TITLE: Polymorphic forms of nateglinide

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Yahalomi, Ronit Kiryat Bialik ILShapiro, Evgeny Haifa ΙL Dolitzky, Ben-Zion Petach Tiqva ΙL Gozlan, Yigael Ramot Sapir ΙL Gome, Boaz Rishon-Lezion ΙL

US-CL-CURRENT: 562/450



or acetonitrile)

19

Display Format: -Change Format

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## **Hit List**

First Hit Glear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

**Search Results -** Record(s) 11 through 19 of 19 returned.

☐ 11. Document ID: US 20040152782 A1

L1: Entry 11 of 19

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040152782

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040152782 A1

TITLE: Process for preparing nateglinide and intermediates thereof

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Yahalomi, Ronit Kiryat Bialik ILShapiro, Evgeny Haifa IL Dolitzky, Ben-Zion Petach Tiqva ILGozlan, Yigael Ramot Sapir IL

US-CL-CURRENT: 514/563; 562/450, 562/862

- 5					,								
9	Full	Title	CHARLES	Erant	Davis	Class Washing	D -4 -	Deference	Commence	Attachments	- ·	10000	
		HILLE	Citation	FIUIL	Medieno	Classification	vate	Kererence	i seduences	Auachments	l Claimsi	KUULU	Draw, De
-									كالمستقد المسابك				

☐ 12. Document ID: US 20040116526 A1

L1: Entry 12 of 19

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040116526

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040116526 A1

TITLE: Polymorphic forms of <u>nateglinide</u>

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Yahalomi, Ronit Kiryat Bialik TL Shapiro, Evgeny Haifa ΙL Dolitzky, Ben-Zion Petach Tiqva ILGozlan, Yigael Ramot Sapir ILGome, Boaz Rishon-Lezion IL

US-CL-CURRENT: 514/563; 562/450

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 13. Document ID: US 20040030182 A1

L1: Entry 13 of 19

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030182

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030182 A1

TITLE: Methods for producing nateglinide crystals

PUBLICATION-DATE: February 12, 2004

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY

Takahashi, Daisuke Yokkaichi-Shi Jp
Nishi, Seiichi Yokkaichi-Shi Jp
Takahashi, Satoji Yokkaichi-Shi Jp

US-CL-CURRENT: 562/450

5 (1)	Title	l Citation I	Front	Review	Classification	Date	Reference	l Seguences	Attachments	Claime	KARAC Draws D
					V1035    100 110 11	0010	Hererelloc	000000000	- mitaerinerita	Claims	ROOL   DIAGO D

☐ 14. Document ID: US 20040029968 A1

L1: Entry 14 of 19

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040029968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040029968 A1

TITLE: Nateglinide-containing hydrophilic pharmaceutical preparation

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Ninomiya, Nobutaka Kawasaki-Shi Jp Makino, Chisato Kawasaki-Shi Jp Yabuki, Akira Kawasaki-Shi Jp

US-CL-CURRENT: <u>514/563</u>; <u>562/450</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi De
											•	

☐ 15. Document ID: US 20040014815 A1

L1: Entry 15 of 19

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040014815

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040014815 A1

TITLE: Nateglinide-containing preparation

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME

Ninomiya, Nobutaka

Kawasaki-Shi Kawasaki-Shi

CITY

STATE COUNTRY

Makino, Chisato Yabuki, Akira

Kawasaki-Shi

JP JP

Kawasaki-Shi

J₽

US-CL-CURRENT: <u>514/563</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw. De

☐ 16. Document ID: US 7208622 B2

L1: Entry 16 of 19

File: USPT

Apr 24, 2007

US-PAT-NO: 7208622

DOCUMENT-IDENTIFIER: US 7208622 B2

TITLE: Methods for producing nateglinide crystals

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040030182 A1

February 12, 2004

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

☐ 17. Document ID: US 7148376 B2

L1: Entry 17 of 19

File: USPT

Dec 12, 2006

US-PAT-NO: 7148376

DOCUMENT-IDENTIFIER: US 7148376 B2

TITLE: Polymorphic forms of nateglinide

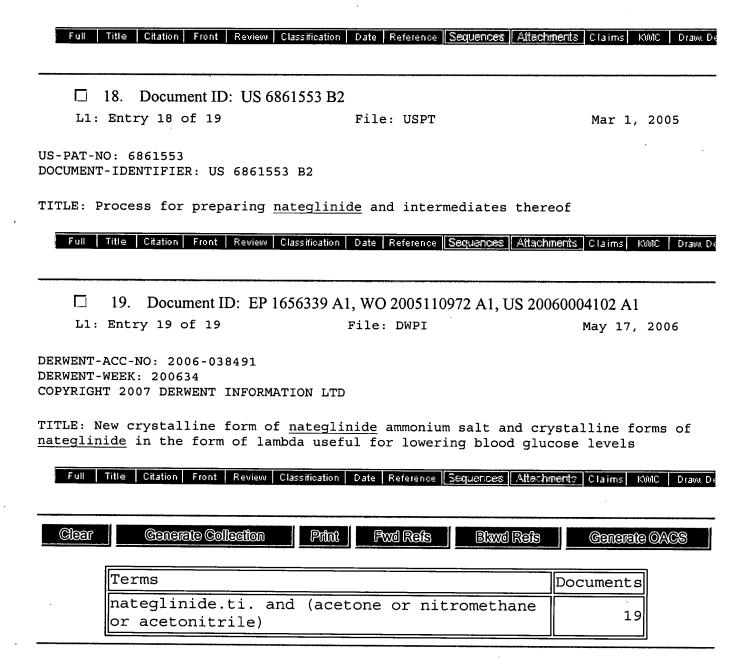
PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040116526 A1

June 17, 2004



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